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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/737,355	12/16/2003	Brent R. Jones	D/A3075	6010
25453	7590	11/16/2005	EXAMINER	
PATENT DOCUMENTATION CENTER			LIANG, LEONARD S	
XEROX CORPORATION			ART UNIT	PAPER NUMBER
100 CLINTON AVE., SOUTH, XEROX SQUARE, 20TH FLOOR				
ROCHESTER, NY 14644			2853	

DATE MAILED: 11/16/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)	
	10/737,355	JONES, BRENT R.	
	Examiner	Art Unit	
	Leonard S. Liang	2853	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 16 December 2003.  
 2a) This action is FINAL.                    2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1-27 is/are pending in the application.  
 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
 5) Claim(s) \_\_\_\_\_ is/are allowed.  
 6) Claim(s) 1-3,6-9,12-20,23,26 and 27 is/are rejected.  
 7) Claim(s) 4,5,10,11,21,22,24 and 25 is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on 16 December 2003 is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) Notice of References Cited (PTO-892)  
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  
 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
 Paper No(s)/Mail Date 12/16/03, 06/09/05.

4) Interview Summary (PTO-413)  
 Paper No(s)/Mail Date. \_\_\_\_\_.  
 5) Notice of Informal Patent Application (PTO-152)  
 6) Other: \_\_\_\_\_.

## **DETAILED ACTION**

### ***Drawings***

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: 9 18, 23-25, 29A-D, 60 A-D. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: 18A-D, 24A-D, 25A-D. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not

accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

***Specification***

The disclosure is objected to because of the following informalities:

In paragraph 0001, insert application numbers.

In paragraph 0030, line 1 should state "plurality of anchor"

Appropriate correction is required.

***Claim Objections***

Claims 23-24 are objected to because of the following informalities: They are dependent upon themselves. It will be construed that claims 23 and 24 should depend on independent claim 16. Appropriate correction is required.

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

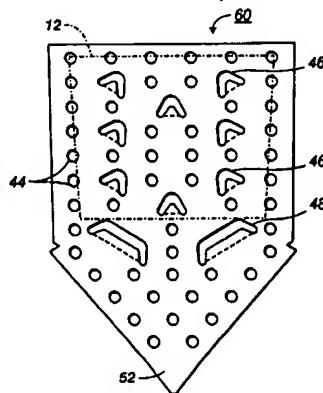
(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-3, 6-8, 12-19, 23, and 26-27 are rejected under 35 U.S.C. 102(e) as being anticipated by Jones et al (US Pat 6530655).

The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Jones et al discloses:

- {claim 1} A drip plate for use in a phase change ink jet printer using solid ink, comprising: an upper portion; and a lower pointed portion, wherein the lower portion is not coplanar with the upper portion (figure 4; column 6, lines 65-67)



*FIG. 4*

- {claim 2} wherein a heating element is bonded to a first side of the upper portion (figure 3, reference 29A-D)

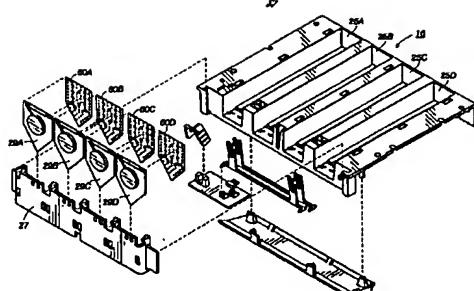


FIG. 3

- {claim 3} wherein the heating element is a closed loop heater (figure 3, reference 29A-D)
- {claim 6} wherein the drip plate is made from metal (column 7, lines 16-17)
- {claim 7} wherein the drip plate is made from a nonferrous metal (column 7, lines 16-17)
- {claim 8} wherein the drip plate is made from aluminum (column 7, lines 16-17)
- {claim 12} at least one anchor tab extending from the second side of the drip plate located near the center of the plate (figure 4, reference 46)
- {claim 13} wherein the anchor tabs are arranged in pairs and wherein each pair is arranged substantially symmetrically about a vertical center line (figure 4, reference 46)
- {claim 14} a silver strainer located near a lower edge of the drip plate (figure 4, reference 48)
- {claim 15} An ink loader (figure 3)
- {claim 16} An ink loader for a phase change ink printer (figure 3), comprising: at least one channel having an entry end and an exit end (figure 3, reference 25A-D); a melt assembly, which includes a drip plate including an upper portion

having substantially flat upper first and second sides, and a lower portion having substantially flat lower first and second sides, wherein the lower portion is not coplanar with the upper portion (figure 3, reference 60A-D; column 6, lines 65-67); a melt plate fastened to the upper second side of the drip plate; and a heating device thermally connected to one of the melt plate and the drip plate (figure 3, reference 29A-D)

- {claim 17} further comprising an adapter to position the assembly relative to the at least one channel (figure 3, reference 27)
- {claim 18} wherein at least one of the drip plate and the melt plate is made from nonferrous metal (column 7, lines 16-17)
- {claim 19} wherein at least one of the drip plate and the melt plate is made from aluminum (column 7, lines 16-17)
- {claim 23} wherein the heating element is a closed loop heater (figure 3, reference 29A-D)
- {claim 26} wherein the melt plate includes at least one anchor tab extending from the second side of the drip plate (figure 4, reference 46)
- {claim 27} wherein the melt plate includes a silver strainer located near a lower portion of the drip plate (figure 4, reference 48)

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Art Unit: 2853

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 9 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jones et al (US Pat 6530655) in view of Scheuhing (US Pat 5832835).

Jones et al discloses, with respect to claims 9 and 20, a drip plate and an ink loader for a phase change printer (as applied to claims 1-3, 6-8, 12-19, 23, and 26-27 above).

Jones et al differs from the claimed invention in that it does not disclose:

- {claim 9} wherein the drip plate is made from plastic
- {claim 20} wherein at least one of the drip plate and the melt plate is made from plastic

Scheuhing discloses, with respect to claims 9 and 20, that using a plastic surface as a material in contact with ink facilitates cleaning of the surface.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate the teachings of Scheuhing into the invention of Jones et al, so that the metal drip plate of Jones et al is replaced with a plastic one. The motivation for the skilled artisan in doing so is to gain the benefit of facilitating the cleaning of the drip plate.

#### *Allowable Subject Matter*

Claims 4-5, 10-11, 21-22, and 24-25 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 4 and 24 disclose, "wherein the heating element includes a foil heater encapsulated in a thin electrically insulative film," which was not found, taught, or disclosed in the prior arts.

Claim 5 discloses, "a bent flange extending upward from the upper side of the drip plate," which was not found, taught, or disclosed in the prior arts.

Claim 10 discloses, "where the drip plate is injection molded," which was not found, taught, or disclosed in the prior arts.

Claim 11 is dependent on objected claim 10.

Claim 21 discloses, "wherein at least one of the drip plate and the melt plate is injection molded," which was not found, taught, or disclosed in the prior arts.

Claim 22 discloses, "wherein the heating element is bonded to the first side of the upper portion of the drip plate," which was not found, taught, or disclosed in the prior arts.

Claim 25 discloses, "wherein the melt plate has two large cutout portions," which was not found, taught, or disclosed in the prior arts.

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Crawford (US Pat 5784089) discloses a melt plate design for a solid ink printer.

Jones et al (US PgPub 20020180852) discloses a drip plate design for a solid ink printer.

Thornton et al (US Pat 6089686) discloses a method for supplying ink to an ink jet printer.

Ikezaki (US Pat 6193365) discloses a hot melt type inkjet head and sheet shaped heating device used for hot melt type inkjet head.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leonard S. Liang whose telephone number is (571) 272-2148. The examiner can normally be reached on 8:30-5 Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Meier can be reached on (571) 272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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*MSL* 11/9/05  
MANISH S. SHAH  
PRIMARY EXAMINER